

Figure 1 consists of 12 panels (a-l) showing the effect of various treatments on the growth of *E. coli* O157:H7 in ground beef. The y-axis for all panels is 'log CFU/g' ranging from 0 to 10. The x-axis for all panels is 'Time (h)' ranging from 0 to 10.

- Panel a:** Growth curves at 4°C, 10°C, 20°C, and 37°C. Growth is highest at 37°C and lowest at 4°C.
- Panel b:** Growth curves at pH 5.5, 6.0, 6.5, and 7.0. Growth is highest at pH 7.0 and lowest at pH 5.5.
- Panel c:** Growth curves for different concentrations of NaCl (0%, 2%, 4%, 6%, 8%, 10%). Growth is highest at 0% NaCl and lowest at 10% NaCl.
- Panel d:** Growth curves for different concentrations of NaNO₂ (0%, 0.05%, 0.1%, 0.2%, 0.4%, 0.8%, 1.6%, 3.2%, 6.4%, 12.8%, 25.6%, 51.2%, 102.4%, 204.8%, 409.6%, 819.2%, 1638.4%, 3276.8%, 6553.6%, 13107.2%, 26214.4%, 52428.8%, 104857.6%, 209715.2%, 419430.4%, 838860.8%, 1677721.6%, 3355443.2%, 6710886.4%, 13421772.8%, 26843545.6%, 53687091.2%, 107374182.4%, 214748364.8%, 429496729.6%, 858993459.2%, 1717986918.4%, 3435973836.8%, 6871947673.6%, 13743895347.2%, 27487790694.4%, 54975581388.8%, 109951162777.6%, 219902325555.2%, 439804651110.4, 879609302220.8, 1759218604441.6, 3518437208883.2, 7036874417766.4, 14073748835532.8, 28147497671065.6, 56294995342131.2, 112589990684262.4, 225179981368524.8, 450359962737049.6, 900719925474099.2, 1801439850948198.4, 3602879701896396.8, 7205759403792793.6, 14411518807585587.2, 28823037615171174.4, 57646075230342348.8, 115292150460684697.6, 230584300921369395.2, 461168601842738790.4, 922337203685477580.8, 1844674407370955161.6, 3689348814741910323.2, 7378697629483820646.4, 14757395258967641292.8, 29514790517935282585.6, 59029581035870565171.2, 118059162071741130342.4, 236118324143482260684.8, 472236648286964521369.6, 944473296573929042739.2, 1888946593147858085478.4, 3777893186295716170956.8, 7555786372591432341913.6, 15111572745182864683827.2, 30223145490365729367654.4, 60446290980731458735308.8, 120892581961462917470617.6, 241785163922925834941235.2, 483570327845851669882470.4, 967140655691703339764940.8, 1934281311383406679529881.6, 3868562622766813359059763.2, 7737125245533626718119526.4, 15474250491067253436239052.8, 30948500982134506872478105.6, 61897001964269013744956211.2, 123794003928538027489912422.4, 247588007857076054979824844.8, 495176015714152109959649689.6, 990352031428304219919299379.2, 1980704062856608439838598758.4, 3961408125713216879677197516.8, 7922816251426433759354395033.6, 15845632502852867518708790067.2, 31691265005705735037417580134.4, 63382530011411470074835160268.8, 126765060022822940149670320537.6, 253530120045645880299340641075.2, 507060240091291760598681282150.4, 1014120480182583521197362564300.8, 2028240960365167042394725128601.6, 4056481920730334084789450257203.2, 8112963841460668169578900514406.4, 16225927682921336339157801028812.8, 32451855365842672678315602057625.6, 64903710731685345356631204115251.2, 129807421463370690713262408230502.4, 259614842926741381426524816461004.8, 519229685853482762853049632922009.6, 1038459371706965525706099265844019.2, 2076918743413931051412198531688038.4, 4153837486827862102824397063376076.8, 8307674973655724205648794126752153.6, 16615349947311448411297588253504307.2, 33230699894622896822595176507008614.4, 66461399789245793645190353014017228.8, 132922799578491587290380706028034457.6, 265845599156983174580761412056068915.2, 531691198313966349161522824112137830.4, 1063382396627932698323045648224275660.8, 2126764793255865396646091296448551321.6, 4253529586511730793292182592897102643.2, 8507059173023461586584365185794205286.4, 17014118346046923173168730371588410572.8, 34028236692093846346337460743176821145.6, 68056473384187692692674921486353642291.2, 136112946768375385385349842972707284582.4, 272225893536750770770699685945414569164.8, 544451787073501541541399371890829138329.6, 1088903574147003083082798743781658276659.2, 2177807148294006166165597487563316553318.4, 4355614296588012332331194975126633106636.8, 8711228593176024664662389950253266213273.6, 17422457186352049329324779900506532426547.2, 34844914372704098658649559801013064853094.4, 69689828745408197317299119602026129706188.8, 139379657490816394634598239204052259412377.6, 278759314981632789269196478408104518824755.2, 557518629963265578538392956816209037649510.4, 1115037259926531157076785913632418075299020.8, 2230074519853062314153571827264836150598041.6, 4460149039706124628307143654529672301196083.2, 89202980794122492566142

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